

### ABSTRACT

A fluid dispensing system includes a closure assembly. The closure assembly is configured to enclose a container opening. The closure assembly has a fluid supply tube with an opening and a shut-off valve threadedly coupled to the supply tube. The shut-off valve has a valve member configured to close the opening in the supply tube upon rotating the shut-off valve in a first direction and to open the opening in the supply tube upon rotating the shut-off valve in a second direction. A cap assembly is coupled to the closure assembly. The cap assembly has a connector member with a fluid passage fluidly coupled to the supply tube. The cap assembly is coupled to the shut-off valve to rotate the shut-off valve in the first direction and the second direction. The configuration of the system eliminates the need for spring based valves.

15